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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,044	07/26/2003	David A. Jackson	66396-059	8751	
75	7590 08/02/2004		EXAMINER		
McDERMOTT, WILL & EMERY			ARTHUR JEANGLAUDE, GERTRUDE		
600 13th Street, Washington, D	, N.W. OC 20005-3096		ART UNIT	PAPER NUMBER	
			3661		
			DATE MAIL ED. 09/02/200	DATE MAIL ED. 09/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/628,044	JACKSON ET AL.	
Office Action Summary	Examiner	Art Unit	
• 1	Gertrude Arthur-Jeanglaude	3661	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this or D (35 U.S.C. § 133).	y. ommunication.
Status			
1) Responsive to communication(s) filed on 26 Ju	<u>ıly 2003</u> .		
-u/- ,—	action is non-final.		
3) Since this application is in condition for allowar			e merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	63 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5)⊠ Claim(s) <u>6-8</u> is/are allowed.			
6)⊠ Claim(s) <u>1,9 and 15</u> is/are rejected.			
7) Claim(s) <u>2-5,10-14 and 16-20</u> is/are objected t			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc			
Applicant may not request that any objection to the			ED 4 4044 B
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action of form F	10-132.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	s have been received in Applicat		
3. Copies of the certified copies of the prior		red in this Nationa	l Stage
application from the International Burea			
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.	
Attachment(c)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date Patent Application (PT	O-152)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>121103</u>. 	6) Other:	. Storer approacher (i	- · ,
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 9, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (US Pat No. 5,092,340).

As to claims 1, 10, 15, Yamaguchi et al. disclose a diagnostic system for diagnosing a malfunction during the operation of an instrument that gathers and analyzes real-time data comprising: one or more information-gathering devices for gathering the real-time data; a memory device in communication with the information-gathering devices for storing the real-time data; (See abstract; col. 8, lines 33-40). Although Yamaguchi et al. disclose a playback system (See col. 1, lines 61-68-col. 2, lines 1-5), it fails to specifically disclose that a data replay system in communication with the memory device for playing back the real-time data after the real time data was gathered. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Yamaguchi et al. by using the payback system or to integrate a replay system that is in communication with the memory device for playing back real-time data after the real time data was gathered in order to produce good result from the information gathering analysis.

Allowable Subject Matter

Claims 2-5, 10-14, 16-20, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art fails to disclose one or more information gathering devices includes a camera focused on an optical target in a wheel alignment system; nor does the prior art disclose processing the real-time wheel alignment data to generate wheel alignment analysis data; storing the wheel alignment analysis data; re-playing the wheel alignment analysis data in conjunction with the re-playing of the real-time wheel alignment data; and analyzing the re-played wheel alignment analysis data to diagnose a malfunction.

Claims 6-8 are allowable over the prior art of record.

The prior art fails to disclose a diagnostic system for allowing a service technician to diagnose a malfunction during operation by an operator of a wheel alignment system that gathers information in real time about the alignment of a plurality of wheels comprising: a storage control for causing the memory device to store the images and the analysis data in response to activation of the storage control by the operator during the occurrence of the malfunction; a display device in communication with the memory device for selectively displaying the images and the analysis data; and a playback control for causing the display device to selectively display the images and the analysis data to the service technician in response to activation of the play-back control after the occurrence of the malfunction.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gertrude Arthur-Jeanglaude whose telephone number is (703) 308-7564. The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GAJ

July 28, 2004

Sentrude A. Leanglande GERTRUDE A. JEANGLANDE